

Cymopterus goodrichii Welsh & Neese (1980)**GOODRICH BISCUITROOT**

FAMILY: *Apiaceae*, the carrot family.

STATUS:

Heritage Program SENSITIVE LIST, ranks: G1 S1

USFWS/ESA: species of concern. **STATE OF NEVADA:** none. **BLM:** Special Status Species. **USFS:** Humboldt-Toiyabe NF Sensitive Species. **NNNPS:** watch list.

POPULATION CENSUS: 7 occurrences mapped; total estimated individuals unknown, total estimated area 14.2+ ha (35.1+ ac). **TREND:** unknown.

IMPACTS AND MAJOR THREATS: No summary available (see references).

INVENTORY EFFORT: Some targeted surveys have been conducted but have not been comprehensive. Most recent entered survey 1991, average year of last survey 1985. **Years since last entered survey** (percent of mapped records at various survey ages): **6-10 yrs:** 14.3%; **11-20 yrs:** 71.4%; **21-30 yrs:** 14.3%.

LAND MANAGEMENT in decreasing predominance: Humboldt-Toiyabe National Forest, U. S. Bureau of Land Management, designated wilderness.

RANGE: Lander, Nye, and Pershing counties, Nevada. Known so far only from the Toiyabe and Humboldt ranges. **Nevada endemic.** Maximum **range dimension 166.5 km (103.5 mi)** excluding most disjunct record. **Type specimen** collected in Lander County.

ELEVATIONS RECORDED: 7300-11100 feet (2225-3383 meters).

HABITAT: Moderate to steep scree and talus slopes of dark angular slate or limestone in the upper subalpine and lower alpine zones.

PHENOLOGY: flowering late-spring to summer. Range of most frequent **survey months:** June-July.

LIFE-FORM AND HABIT: small perennial herb from a buried root crown.

DESCRIPTION: A slender perennial herb, 4-15 cm tall, with a long, purplish flower stalk arising directly from the ground. White or purple flowers bloom June-July.

PHOTOGRAPHS: Weixelman and Atwood (1990); Nevada Natural Heritage Program slide collection (1986-present) and files.

ILLUSTRATIONS: Cronquist et al. (1997), Weixelman and Atwood (1990).

OTHER GENERAL REFERENCES (listed separately): Goodrich (1981).

SPECIFIC REFERENCES:

Chatterley, M. 1981. Status report for *Cymopterus goodrichii*, *Apiaceae*, a Nevada endemic. Portland, Oregon: U. S. Fish and Wildlife Service.

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Tiehm, A. 1989. Proposed threatened and endangered plants of the Humboldt Range, Pershing County, Nevada. Carson City: Nevada Natural Heritage Program.

Welsh, S. and E. Neese. 1980. A new species of *Cymopterus* (*Umbelliferae*) from the Toiyabe Range, Lander County, Nevada. *Madroño* 27: 97-100.

Woodbury, K. 1980. Status report for *Cymopterus goodrichii*. Portland, Oregon: U. S. Fish and Wildlife Service.
